

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1498327

Luminaire Tested: MAE-G-2-120-2HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2HI-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

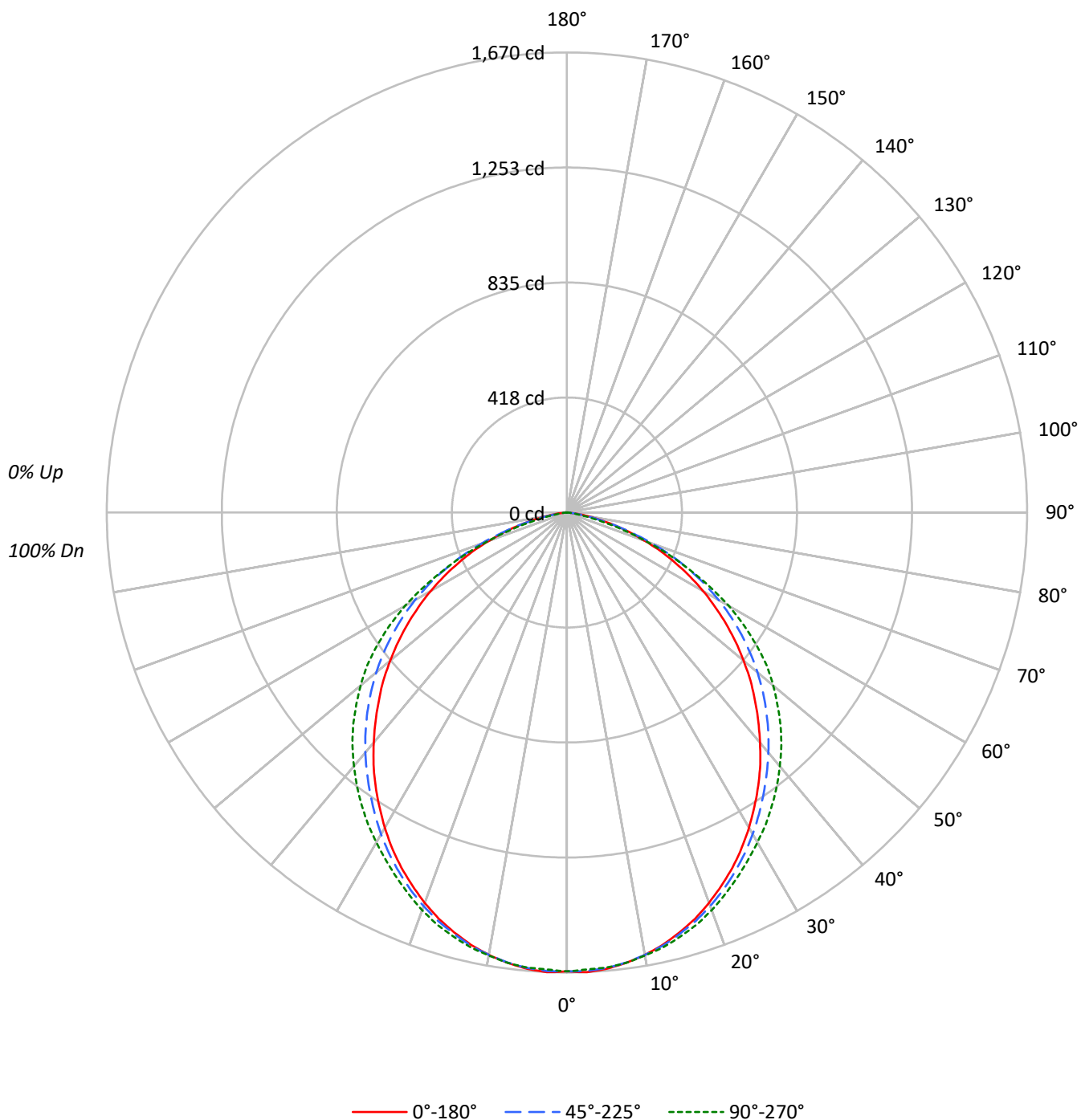
Lumens per Lamp: N/A
Luminaire Lumens: 4205.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4483	4483	4483
5°	4491	4483	4478
10°	4456	4456	4462
15°	4397	4412	4439
20°	4318	4354	4399
25°	4222	4278	4342
30°	4106	4190	4296
35°	3977	4088	4263
40°	3829	3996	4222
45°	3673	3896	4176
50°	3503	3779	4092
55°	3309	3628	3938
60°	3075	3425	3657
65°	2774	3112	3130
70°	2367	2590	2421
75°	1859	1876	1512
80°	1209	965	580
85°	559	367	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	3.7
10°-20°	446.2	10.6
20°-30°	662.9	15.8
30°-40°	780.8	18.6
40°-50°	791.0	18.8
50°-60°	688.5	16.4
60°-70°	469.2	11.2
70°-80°	187.5	4.5
80°-90°	21.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1266.5	30.1
0°-40°	2047.3	48.7
0°-60°	3526.8	83.9
0°-90°	4205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1662	1653	1660	1657	1658	158
15°	1578	1571	1584	1590	1593	445
25°	1422	1423	1441	1453	1462	654
35°	1210	1216	1244	1277	1298	757
45°	965	977	1024	1072	1097	745
55°	705	721	773	822	839	630
65°	436	456	489	489	492	432
75°	179	190	180	155	145	193
85°	18	16	12	11	10	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.8	1665.8	1665.8	1665.8	1665.8
2.5°	1670.4	1659.7	1665.8	1664.7	1660.2
5°	1662.4	1652.8	1659.7	1657.4	1657.9
7.5°	1649.4	1640.4	1647.8	1647.2	1648.9
10°	1630.8	1621.8	1630.8	1631.3	1633.1
12.5°	1607.5	1599.7	1610.4	1612.7	1616.7
15°	1578.2	1571.4	1583.8	1589.5	1593.4
17.5°	1546.5	1542.0	1554.4	1561.8	1568.0
20°	1508.0	1505.8	1520.5	1527.8	1536.3
22.5°	1466.1	1465.0	1482.6	1491.7	1500.2
25°	1422.0	1422.6	1440.8	1452.6	1462.3
27.5°	1373.4	1374.5	1396.6	1410.8	1422.6
30°	1321.4	1324.2	1348.5	1367.8	1382.5
32.5°	1266.5	1271.6	1297.6	1324.2	1342.9
35°	1210.5	1216.2	1244.5	1277.2	1297.6
37.5°	1152.8	1159.1	1191.8	1230.4	1251.9
40°	1090.1	1099.6	1137.6	1180.0	1202.0
42.5°	1028.3	1039.1	1081.6	1128.0	1151.7
45°	965.1	976.9	1023.8	1071.9	1097.3
47.5°	903.9	914.0	964.4	1014.8	1037.4
50°	836.7	850.2	902.8	953.2	977.4
52.5°	772.1	785.1	838.9	890.3	915.3
55°	705.4	720.6	773.3	821.9	839.4
57.5°	638.1	655.6	706.5	746.6	761.9
60°	571.4	588.9	636.4	668.0	679.4
62.5°	504.0	522.1	564.0	583.2	585.5
65°	435.6	456.0	488.7	489.3	491.6
67.5°	370.6	387.4	411.2	404.4	401.1
70°	300.9	319.6	329.2	315.7	307.7
72.5°	239.3	252.8	251.2	231.3	221.8
75°	178.8	189.5	180.4	155.0	145.4
77.5°	123.9	132.9	114.8	91.0	81.5
80°	78.0	82.0	62.3	44.1	37.4
82.5°	41.9	41.3	26.6	22.0	20.4
85°	18.1	16.4	11.9	10.8	9.6
87.5°	6.3	5.6	4.5	4.0	3.4
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.13	17.71	16.49	18.02	18.34	17.09	18.67	17.45	18.98	19.30
	3H	17.55	18.97	17.93	19.30	19.66	18.28	19.70	18.66	20.03	20.39
	4H	17.94	19.28	18.34	19.62	20.00	18.49	19.83	18.89	20.17	20.55
	6H	18.12	19.35	18.53	19.71	20.10	18.51	19.74	18.92	20.11	20.50
	8H	18.13	19.30	18.56	19.69	20.09	18.49	19.66	18.91	20.05	20.45
	12H	18.12	19.24	18.55	19.62	20.05	18.46	19.59	18.89	19.97	20.40
4H	2H	16.79	18.12	17.19	18.47	18.85	17.56	18.90	17.96	19.24	19.62
	3H	18.37	19.47	18.78	19.87	20.27	18.91	20.02	19.32	20.42	20.82
	4H	18.84	19.83	19.27	20.25	20.69	19.18	20.17	19.61	20.59	21.03
	6H	19.08	19.94	19.54	20.39	20.84	19.23	20.09	19.69	20.53	20.99
	8H	19.11	19.91	19.57	20.35	20.82	19.21	20.01	19.67	20.45	20.92
	12H	19.10	19.82	19.59	20.30	20.77	19.19	19.90	19.67	20.38	20.85
8H	4H	18.98	19.78	19.44	20.23	20.69	19.30	20.10	19.76	20.54	21.01
	6H	19.26	19.92	19.75	20.41	20.88	19.35	20.02	19.85	20.51	20.98
	8H	19.29	19.88	19.81	20.39	20.88	19.33	19.92	19.84	20.43	20.92
	12H	19.31	19.83	19.81	20.32	20.88	19.32	19.84	19.83	20.33	20.89
12H	4H	18.96	19.68	19.44	20.16	20.63	19.28	20.00	19.77	20.48	20.95
	6H	19.22	19.82	19.74	20.33	20.81	19.33	19.92	19.84	20.43	20.92
	8H	19.29	19.81	19.80	20.30	20.86	19.33	19.85	19.84	20.34	20.91

END OF REPORT